

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P637212

Luminaire Tested: **IFLD-S-SA6B-827-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637212
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-827-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (96) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24402 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

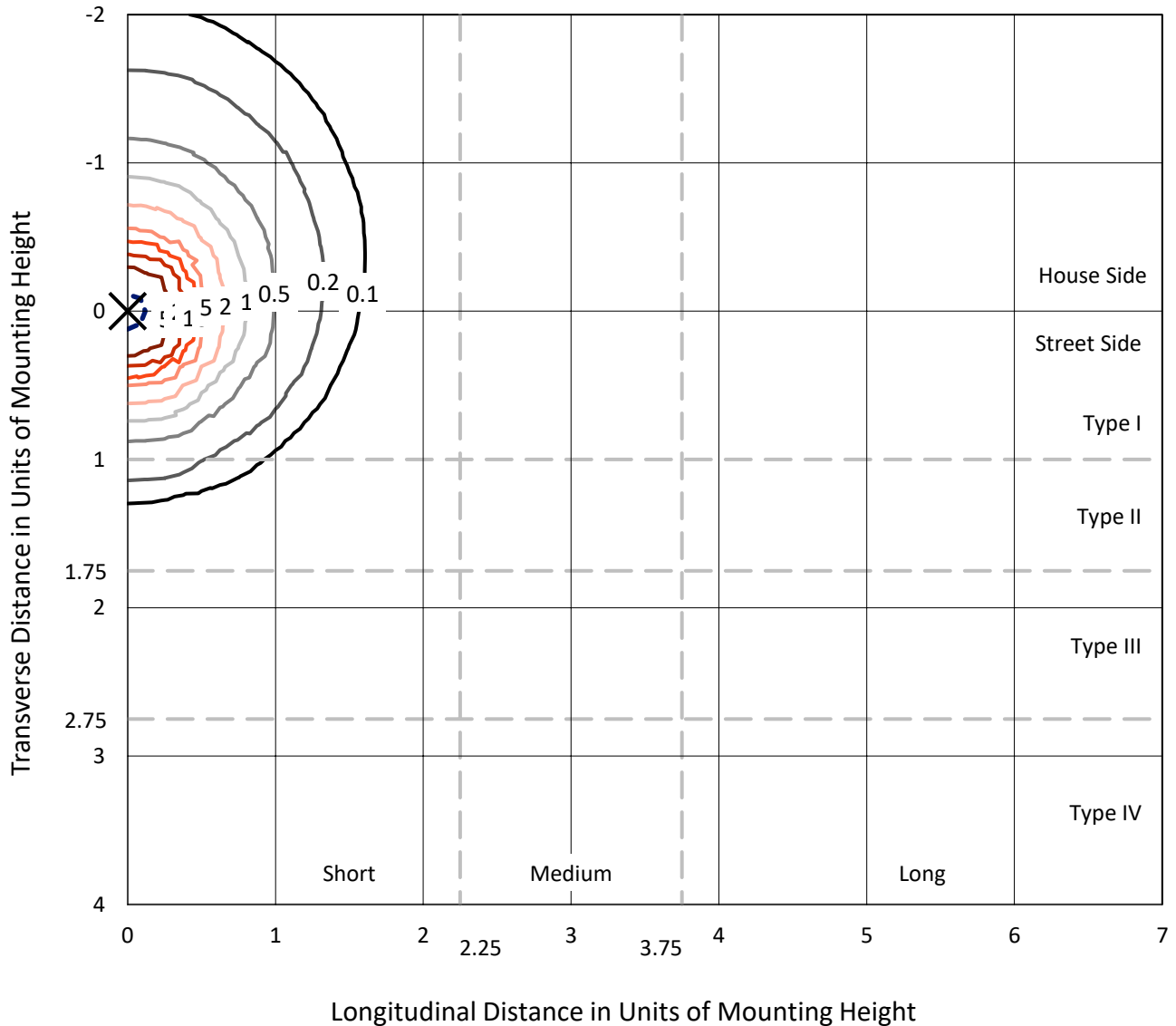
Input Watts (W): 244.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

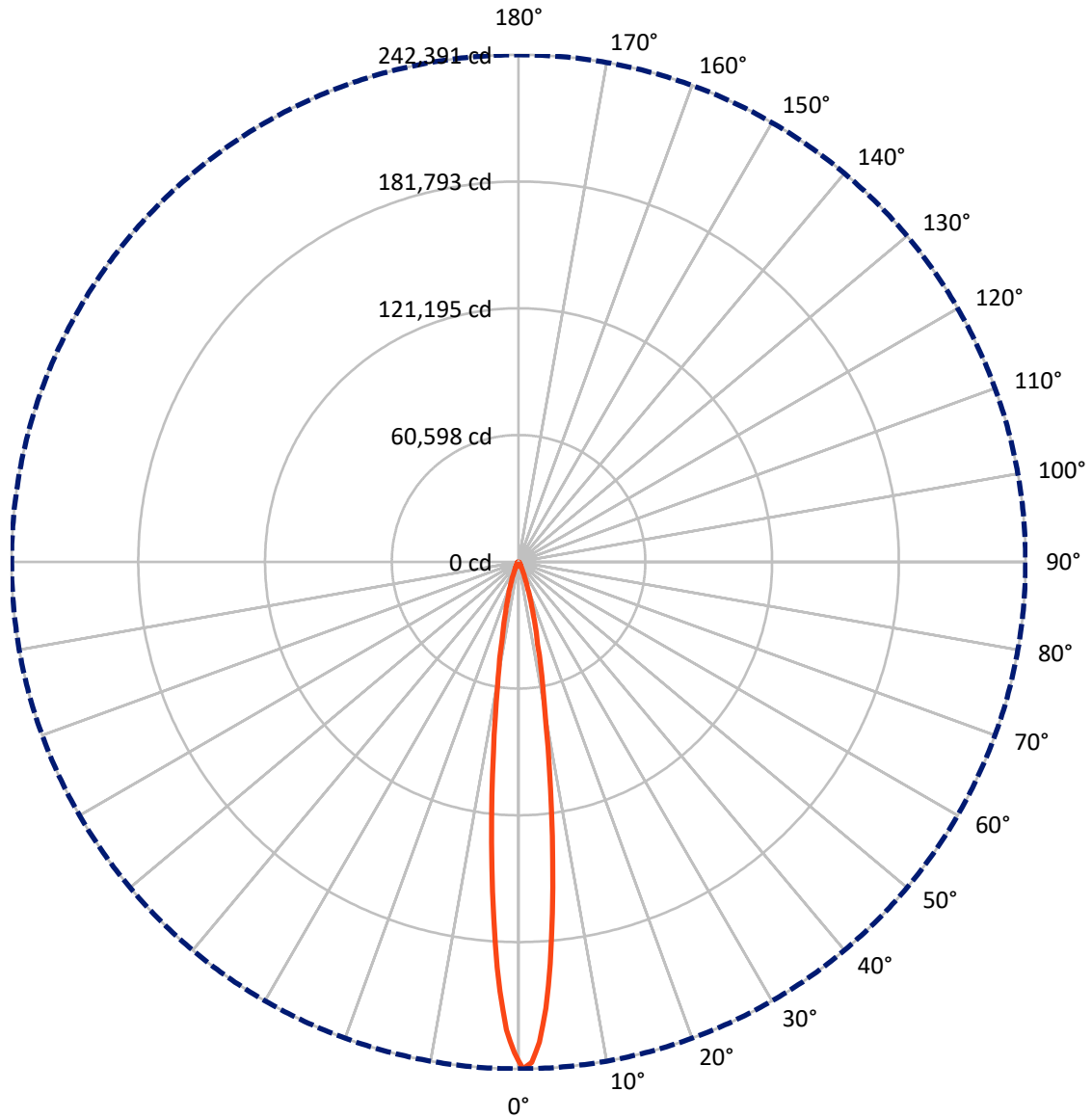
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 606 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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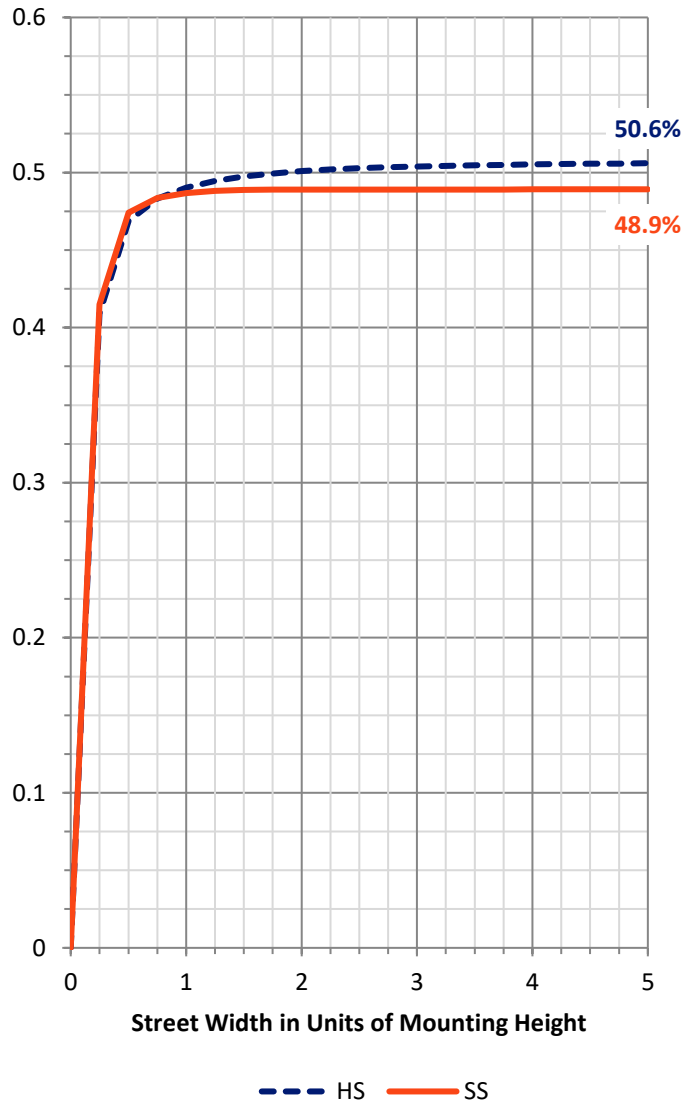
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12498.2	0.0	12498.2
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	11903.7	0.0	11903.7
	% Fixture	48.8	0.0	48.8
Total	Lumens	24402.0	0.0	24402.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12318.9	50.5
10°-20°	7886.5	32.3
20°-30°	2370.5	9.7
30°-40°	771.9	3.2
40°-50°	449.1	1.8
50°-60°	298.3	1.2
60°-70°	179.6	0.7
70°-80°	92.3	0.4
80°-90°	35.1	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	24402.0	100.0
0°-180°	24402.0	100.0

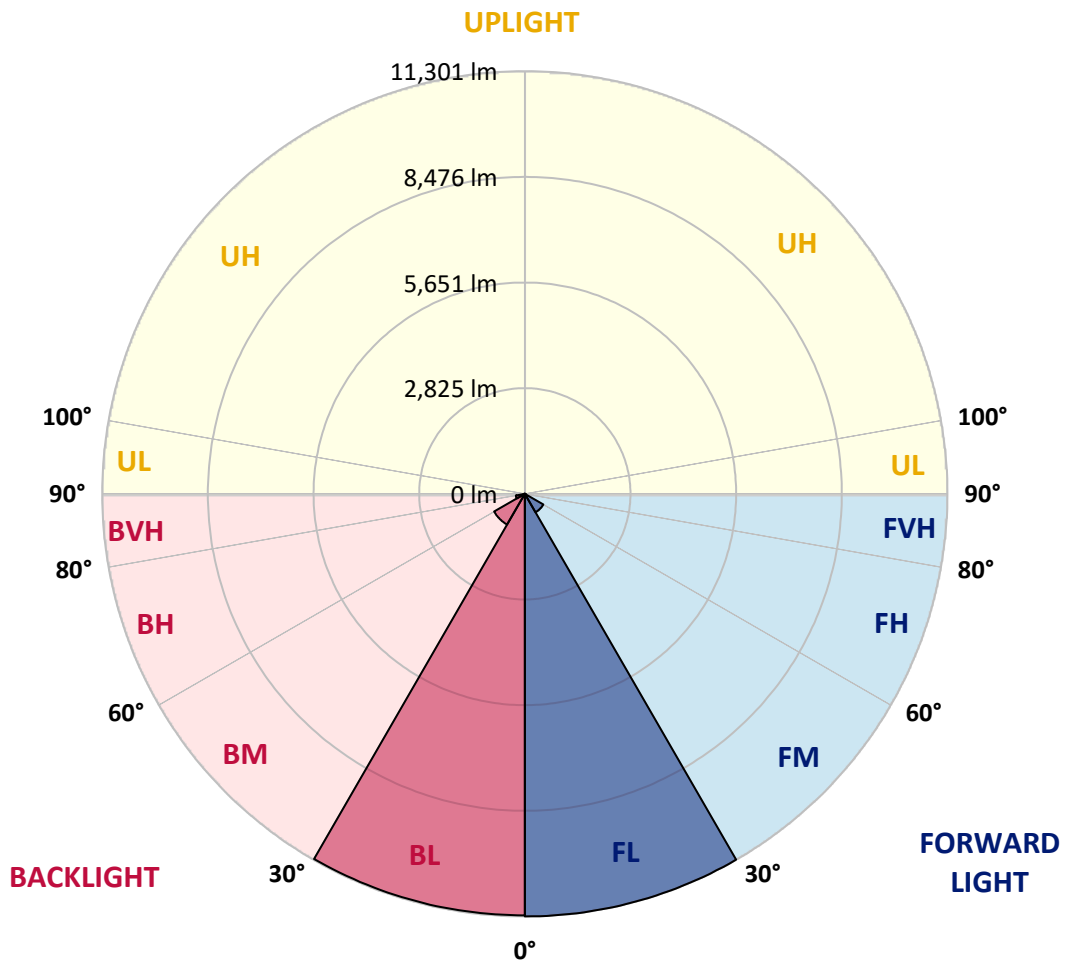


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11301.3	46.3			
FM (30°-60°)	570.3	2.3			
FH (60°-80°)	26.8	0.1			G0/660
FVH (80°-90°)	5.3	0.0			G0/10
BL (0°-30°)	11274.5	46.2	B5		
BM (30°-60°)	948.9	3.9	B1/1000		
BH (60°-80°)	245.0	1.0	B1/500		G0/660
BVH (80°-90°)	29.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	242390.9	242390.9	242390.9	242390.9	242390.9	242390.9	242390.9	242390.9	242390.9	242390.9
1°	239488.7	238757.8	236870.8	238212.9	239393.0	239050.1	239026.2	238898.6	238720.6	240118.5
2°	229915.4	229442.3	226651.6	227802.5	229479.5	228256.9	229022.4	228350.0	228363.2	230032.3
3°	213777.4	214035.2	209583.5	211675.1	214006.0	211042.6	211962.2	213689.7	211879.8	211334.9
4°	192802.3	190564.5	188132.6	190258.9	190862.2	189137.3	190832.9	192948.5	190434.3	190545.9
5°	168855.9	167202.7	164324.4	165637.3	164141.0	164685.8	167226.6	168098.4	166344.3	164135.7
6°	144234.3	143059.6	139461.0	141353.3	140821.7	140513.4	143721.4	141063.6	142020.4	140683.5
7°	119974.2	117778.9	116011.5	117824.1	117941.0	117013.5	121178.2	120694.5	118953.6	118549.7
8°	99400.5	97210.5	95714.1	97064.3	97946.7	96490.2	98449.0	99735.3	98374.6	98496.8
9°	80171.5	79786.1	77705.1	79469.9	80429.3	78869.2	81037.9	81503.1	80230.0	80849.2
10°	65827.6	65378.4	63717.3	64432.2	66021.6	64161.1	66242.2	66393.7	65378.4	65668.1
12.5°	40679.8	40499.0	40453.9	40557.5	40536.3	40865.8	41397.4	40791.4	40711.7	39709.7
15°	26293.3	26561.7	26285.3	26816.9	26893.9	27204.9	26880.6	26391.6	25458.7	24996.3
17.5°	16409.0	16751.9	17225.0	18003.7	18782.4	18872.8	18442.2	17868.2	17416.3	16922.0
20°	9440.4	9607.8	9536.1	10468.9	12483.5	13031.0	12475.6	11872.2	11327.4	10827.7
22.5°	5865.7	5804.6	5916.2	6229.8	6886.3	8579.3	8124.8	7521.5	7125.5	6713.5
25°	3596.0	3662.4	3619.9	3792.6	4087.6	4805.2	4908.9	4648.4	4446.4	4233.8
27.5°	2314.9	2314.9	2333.5	2429.2	2631.2	2607.3	3160.1	2958.1	2849.1	2745.5
30°	1607.9	1613.3	1613.3	1669.1	1714.3	1634.5	1778.0	2038.5	1988.0	1908.3
32.5°	1193.3	1209.3	1222.6	1251.8	1214.6	1129.6	1164.1	1467.1	1437.9	1408.6
35°	909.0	922.2	954.1	970.1	916.9	863.8	831.9	1079.1	1092.3	1084.4
37.5°	661.8	669.8	728.2	789.4	728.2	680.4	661.8	829.2	893.0	885.0
40°	507.6	510.3	520.9	590.0	590.0	552.8	558.1	619.3	730.9	730.9
42.5°	435.9	435.9	446.5	435.9	438.5	478.4	491.7	499.7	619.3	619.3
45°	377.4	377.4	382.7	356.1	329.6	412.0	422.6	425.2	520.9	534.2
47.5°	316.3	316.3	326.9	292.4	279.1	326.9	356.1	364.1	449.2	459.8
50°	233.9	236.5	268.4	239.2	247.2	252.5	308.3	313.6	380.1	404.0
52.5°	156.8	156.8	162.1	186.0	215.3	207.3	249.8	268.4	303.0	334.9
55°	127.6	127.6	124.9	119.6	159.5	172.8	183.4	223.3	247.2	287.0
57.5°	87.7	93.0	85.0	98.3	103.7	130.2	138.2	175.4	188.7	241.9
60°	10.6	13.3	18.6	71.8	69.1	87.7	103.7	138.2	154.2	186.0
62.5°	2.7	2.7	5.3	13.3	47.8	58.5	82.4	95.7	111.6	143.5
65°	0.0	0.0	2.7	5.3	10.6	31.9	42.5	55.8	79.7	101.0
67.5°	0.0	0.0	2.7	5.3	5.3	13.3	21.3	34.6	42.5	74.4
70°	0.0	0.0	2.7	5.3	5.3	10.6	13.3	15.9	29.2	39.9
72.5°	0.0	0.0	2.7	5.3	8.0	10.6	13.3	13.3	13.3	26.6
75°	0.0	0.0	2.7	5.3	8.0	10.6	13.3	13.3	10.6	10.6
77.5°	0.0	0.0	2.7	5.3	10.6	13.3	15.9	13.3	8.0	8.0
80°	0.0	0.0	2.7	8.0	13.3	18.6	21.3	15.9	8.0	5.3
82.5°	0.0	0.0	5.3	10.6	15.9	21.3	29.2	23.9	10.6	5.3
85°	0.0	0.0	2.7	8.0	15.9	21.3	42.5	29.2	13.3	2.7
87.5°	0.0	0.0	0.0	2.7	2.7	5.3	15.9	10.6	5.3	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
242390.9	0°	242390.9	242390.9	242390.9	242390.9	242390.9	242390.9	242390.9	242390.9
238505.3	1°	240171.7	240339.1	239791.6	240639.5	240341.8	238598.3	238021.6	237338.5
229051.6	2°	228350.0	229203.1	229245.6	230186.5	230173.2	228140.0	227510.1	228671.5
212440.6	3°	211797.4	212791.4	211895.7	213567.5	213065.1	210598.7	209958.2	211276.5
191428.3	4°	190856.8	190668.1	190359.8	189408.4	190580.4	188898.1	187630.3	189419.0
167064.5	5°	166729.6	166309.7	165709.1	165427.3	166299.1	165222.7	162615.4	165228.0
143102.1	6°	143277.5	141470.2	141382.5	141225.7	141313.4	138299.5	138480.2	140425.7
117159.6	7°	118398.2	118730.4	118052.7	119139.7	118310.5	116269.3	115482.6	117531.7
99033.7	8°	98342.7	97922.7	97404.5	99028.4	97590.5	96251.0	95334.1	96952.7
80950.2	9°	80798.8	80073.2	79546.9	79464.6	79687.8	77173.6	77683.8	78909.1
65827.6	10°	65851.5	64660.8	64950.5	65027.6	64783.1	63135.2	63151.2	63573.8
40374.1	12.5°	40230.6	39645.9	39792.1	39871.8	40368.8	39789.4	38970.8	38380.8
25456.1	15°	25286.0	24866.1	25724.5	26301.3	26184.3	25668.7	25283.3	24749.1
16922.0	17.5°	16765.2	17315.3	17318.0	17844.2	17897.4	17381.8	17084.1	16603.1
11005.8	20°	10965.9	11194.5	11670.3	12042.3	12257.6	11864.3	11508.1	11178.6
6862.4	22.5°	6862.4	7261.0	7558.7	8042.4	8239.1	7952.0	7699.5	7431.1
4284.3	25°	4212.6	4496.9	4744.1	5164.0	5432.5	5294.3	5063.0	4874.3
2766.7	27.5°	2809.3	2928.9	3051.1	3340.8	3619.9	3542.8	3449.8	3335.5
1950.8	30°	1980.0	1990.7	2120.9	2283.0	2469.1	2516.9	2474.4	2415.9
1432.5	32.5°	1459.1	1501.6	1562.8	1663.8	1788.7	1903.0	1881.7	1855.1
1095.0	35°	1126.9	1190.7	1241.2	1318.3	1384.7	1493.7	1512.3	1504.3
901.0	37.5°	919.6	975.4	1025.9	1071.1	1126.9	1201.3	1259.8	1262.4
744.2	40°	762.8	813.3	879.7	914.3	954.1	1010.0	1081.7	1087.0
629.9	42.5°	643.2	691.0	757.5	800.0	829.2	882.4	954.1	964.8
539.5	45°	552.8	582.1	651.2	701.7	730.9	765.4	842.5	853.1
465.1	47.5°	481.1	510.3	552.8	624.6	651.2	683.0	744.2	762.8
412.0	50°	422.6	451.8	489.0	552.8	592.7	619.3	669.8	696.3
358.8	52.5°	374.7	404.0	443.8	494.3	539.5	563.4	611.3	645.8
292.4	55°	313.6	364.1	393.3	438.5	499.7	520.9	558.1	603.3
255.1	57.5°	273.7	316.3	358.8	396.0	457.1	483.7	520.9	563.4
202.0	60°	231.2	271.1	321.6	353.5	412.0	446.5	486.4	526.2
154.2	62.5°	183.4	236.5	271.1	316.3	372.1	417.3	449.2	489.0
119.6	65°	135.5	194.0	233.9	281.7	334.9	382.7	409.3	451.8
85.0	67.5°	98.3	151.5	199.3	244.5	295.0	342.9	369.4	406.6
53.2	70°	77.1	111.6	164.8	204.6	257.8	297.7	326.9	350.8
34.6	72.5°	45.2	85.0	132.9	178.1	225.9	252.5	273.7	295.0
15.9	75°	29.2	66.4	109.0	148.8	183.4	207.3	225.9	244.5
8.0	77.5°	18.6	47.8	87.7	124.9	140.9	170.1	186.0	196.7
5.3	80°	10.6	37.2	77.1	101.0	114.3	132.9	148.8	162.1
5.3	82.5°	8.0	31.9	63.8	85.0	85.0	106.3	114.3	114.3
2.7	85°	5.3	26.6	50.5	79.7	63.8	79.7	74.4	74.4
2.7	87.5°	5.3	18.6	23.9	34.6	29.2	34.6	34.6	39.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
242390.9
234632.9
223752.0
205421.4
182944.7
158344.4
134786.0
111958.4
92330.8
75081.9
60698.1
38022.0
24475.4
16483.5
11064.3
7287.6
4765.4
3269.1
2376.0
1833.9
1477.7
1243.8
1079.1
956.8
850.5
765.4
699.0
645.8
606.0
566.1
536.9
507.6
459.8
409.3
358.8
300.3
244.5
191.4
146.2
106.3
71.8
39.9
0.0

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